

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE  
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	: IV (New)	Term	: II	Academic Year	: 2016-17
Course No.	: PATH 243	Title	: Diseases of Field Crops and Their Management		
Credits	: 3 (2+1)	Time	: 14.00 to 17.00	Total Marks	: 80
Day & Date	: Thursday, 27.04.2017				

- Note : 1. Solve ANY EIGHT questions from SECTION "A".  
2. All questions from SECTION "B" are compulsory.  
3. All questions carry equal marks.  
4. Draw neat diagrams wherever necessary.

SECTION "A"

- Q.1 a) Enlist the diseases of bajra along with name of causal organism.  
b) Describe various symptoms, primary and secondary sources of infection of downy mildew of bajra.
- Q.2 Enlist the diseases of cotton and describe symptoms and control measures of wilt of cotton.
- Q.3 Quote any three diseases of rice and describe symptoms and management of blast disease.
- Q.4 Enlist three major diseases of sunflower and describe symptom and management of Alternaria leaf blight.
- Q.5 Describe in detail the causal organism, symptoms and management strategies for black stem rust of wheat.
- Q.6 Enlist different smut fungi of sorghum and enumerate the symptom and management of grain smut.
- Q.7 Enlist diseases of groundnut caused by fungi and write symptoms, sources of infection and management of tikka disease.
- Q.8 Describe the symptoms, etiology, primary and secondary sources of infection and management strategies for smut of sugarcane.
- Q.9 Write short notes in respect to symptoms and management (Any Two) :  
1) Smut of maize  
2) Sesamum Phyllody  
3) Leaf blight of safflower
- Q.10 a) Describe symptoms and management of wilt of pigeon pea.  
b) Describe symptoms and management of powdery mildew of green gram.

(P.T.O.)

## SECTION "B"

Q.11 Match the following pairs.

"A"

- 1) False smut of rice
- 2) Blast of ragi
- 3) Black rust of wheat
- 4) Yellow mosaic of green gram
- 5) Leaf blotch of turmeric
- 6) Rust of soybean
- 7) *Erysiphe polygoni*
- 8) Anthracnose of soybean

"B"

- a) *Colletotrichum truncatum*
- b) *Ustilagoidea virens*
- c) *Ectophytic mycelium*
- d) *Phakopsora pachyrhizi*
- e) White fly
- f) *Taphrina maculans*
- g) Barberry
- h) *Pyricularia grisea*

Q.12 Fill in the blanks.

- 1) 'Kresk' is the important symptom of \_\_\_\_\_ disease of rice.
- 2) Leaf curl of green gram is transmitted by \_\_\_\_\_.
- 3) Purple blotch of onion is caused by \_\_\_\_\_.
- 4) Stunt disease of chickpea is caused by \_\_\_\_\_.
- 5) Tobacco mosaic virus is transmitted through \_\_\_\_\_.
- 6) Nicotiana virus-10 causes \_\_\_\_\_ disease in tobacco.
- 7) The wilt pathogen of cotton produces \_\_\_\_\_ vegetative type spores.
- 8) Loose smut of wheat is caused by \_\_\_\_\_.

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